

Complex "Blade" (SA-N-9)

Complex "Blade", missile 9m330 or 9m331 - SA-N-9
Complex "Kinzhal", missile 9m330-2

Shipborne SAM. The missile used is the same as the land-based Tor SAM. The system was developed by GNPO Altair, Design Bureau of Machine-Building Plant No. 293 (Khimki) under the supervision of S. A. Fadeev. The missile was developed by OKB-2 under the supervision of P. D. Grushin (now MKB Fakel). R & D since 1975. Adopted into service in 1986. The system has a modular design and can be installed on ships with a displacement of 800 tons or more. The name "Kinzhal" was first mentioned in 1995 - SAM on the heavy aircraft-carrying cruiser "[Admiral Kuznetsov](#)" (12 launchers with 8 SAMs, ammunition load of 192 missiles).



Missile launch and antenna post of the radar of the SAM "Klinok" ([Military parade](#))

Author: [DIMMI](#)

Created: 17.01.2009 01:20:21

Comments: 4

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30mm AK-230 mount

AK-230 (NATO code L/65AA), KL-302 (prototype)
AK-230-MR-104 (complex)
AK-230M

2 x 30 mm artillery mount. R & D work began in accordance with the USSR Council of Ministers Resolution No. 144-85 dated 02.02.1956. The specifications for the mount were approved on 20.03.1956. The design of the KL-302 mount was carried out by OKB-43 (chief designer S.A. Kharykin), and the NN-30 revolver-type automatic guns (factory index 291P) were developed by OKB-16 (chief designers A.E. Nudelman and V.Ya. Nemenov). The preliminary design was accepted on 31 August 1956. The working drawings were approved on 28 May 1957. The prototype of the installation was ready in December 1957. The 291P machine guns were modified by OKB-16 until March 1958. Factory tests after the installation was modified for the new machine guns were conducted at Proving Ground No. 55 from 24 May to 12 December 1958. Proving ground tests were conducted there from 11 February to 17 August 1959. State tests were conducted on the lead missile boat of Project 205 (factory No. 401) together with the Rys control system from 24 September 1960 to 31 October 1961 in the Gulf of Riga and in the area of the city of Baltiysk. The installation was produced at the Tula Machine-Building Plant (Plant No. 535) in series since 1959, the SU drives - Plant No. 710 (Moscow). The system was adopted by the Resolution of the USSR Council of Ministers No. 882-378 of 24.08.1962 and the Order of the USSR Ministry of Defense No. 0240 of 18.09.1962.

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VA-111 Shkval M-5

hi-res

[mpashnev](#) 2020-08-13 16:26

VA-111 Shkval M-5

[arma37@tank7](#) Wrote:From which book? t-95yes from the same... in neighboring topics the title was written by Sierra



Installation of AK-230 in the Museum of the Polish Army in Warsaw (Photo: remont1969, <http://www.fortification.ru/>)

Author: [DIMMI](#)

Created: 19.01.2009 00:41:13

Comments: [1](#)

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Complex 4k33 "Osa-M" (SA-N-4 GECKO)

Complex 4k33 "Osa-M", missile 9m33 - SA-N-4 GECKO
In the Western press, the name of the complex is found P-20/P-21

It was created on the basis of the SA-8 Osa land-based air defense missile system. It was developed at the Antey Research and Production Association under the supervision of V. Efremov - R & D work began in accordance with the decree of the USSR Council of Ministers dated 10/27/1960. The missile was developed at the Fakel Design Bureau. It was accepted into service in 1969-1971. The missile differs from the SA-8 air defense missile system. Launcher production (



The Osa-M air defense missile system on the Project 1144 Kirov nuclear cruiser ([Military parade](#) , 1998)

Author: [DIMMI](#)

Created: 17.01.2009 03:02:36

Comments: [2](#)

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130mm A-217 mount

A-217 (ZIF-92)

1 x 130 mm artillery mount. R & D began in accordance with the decree of the USSR Council of Ministers dated June 29, 1967, at the Design Bureau of the Arsenal Production Association. The draft technical project was adopted in October 1969. The name ZIF-94-1 is also found in the media. The prototype was manufactured by the Arsenal Production Association. Field tests were conducted at Rzhevka.

[DIMMI](#) 2016-10-07 12:49

VA-111 Shkval M-5

From which book? t-95

[arma37@tank7](#) 2016-10-06 21:36

VA-111 Shkval M-5

An article for every occasion

[Sierra](#) 2016-10-06 19:51

VA-111 Shkval M-5

Slaanesh Wrote: although we may not need it, but India is interested)
<http://www.ca-news.org...>

[Artist](#) 2014-09-13 04:12

VA-111 Shkval M-5

I accidentally saw an article on Wikipedia about the Dastan plant in Kyrgyzstan. This topic is nonsense...

[Artist](#) 2014-09-13 03:06

VA-111 Shkval M-5

Vladimir Vladimirovich Wrote:
 Removed from service in the early 1990s (((This is a lie. Nothing...

[Artist](#) 2014-09-11 21:02

VA-111 Shkval M-5

although we may not need it, but India is interested)
<http://www.ca-news.org/news/725931>

[Slaanesh](#) 2011-07-05 13:03

VA-111 Shkval M-5

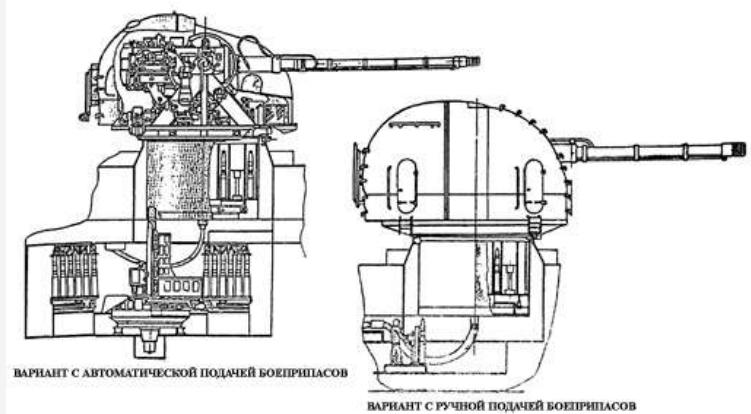
Hmm, interesting, only surface targets are written. By the way. It's interesting, what is the epic...

[Slaanesh](#) 2011-07-05 13:01

VA-111 Shkval M-5

A small remark - a wonderful example of the German trace. A magnificent development of their ideas. :beer:

[Sierra](#) 2011-05-30 01:40



Installation A-217 (Shirokorad A.B.,
Weapons of the Russian Navy. 1945-2000. Minsk, Harvest, 2001)

Author: [DIMMI](#)

Created: 28,02,2009 02:04:46

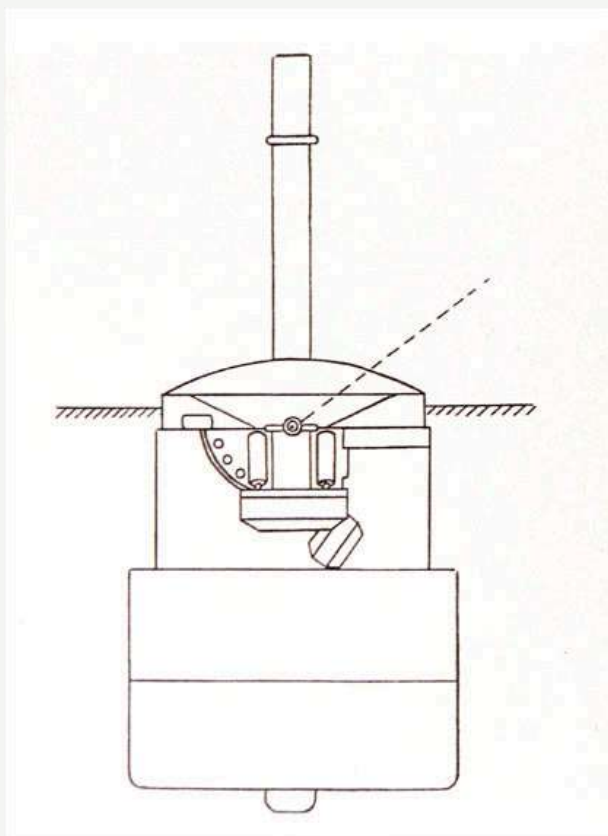
Comments: [1](#)

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406 mm universal gun

406 mm universal gun

The project of a 406.4 mm universal smoothbore gun-launcher of a turretless type was developed in late 1983 - early 1984. Separate loading. Ammunition - shells or missiles. Not accepted for development due to non-standard caliber.



Scheme of the 406-mm universal gun
(Shirokorad A.B., Weapons of the domestic fleet. 1945-2000. Minsk, Harvest, 2001)

Author: [DIMMI](#)

Created: 11,02,2009 22:08:46

Comments: [1](#)

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SA-N-8

Complex "Strela-3" 9k34, missile 9m36 - SA-N-8 GREMLIN

MANPADS. The first mention of SA-N-8 in the foreign press dates back to 1987. The 9k36-1 variant of the system is also known.

Basing :

Author: [DIMMI](#)

Created: 17,01,2009 01:23:39

Comments: [1](#)

[READ THE FULL ARTICLE >](#)

Sources (Navy Surface-to-Air Missiles)

General sources for this section:

Voevoda S.S., archive, 1992.

Dolgikh A., "Blade"; ; directed to the sky. // Krasnaya Zvezda. 22.01.1993.

Ilyin V., The Russian Navy on the Threshold of the 21st Century. // Equipment and Weapons. N 2 / 1997.

Lipatov M., Multi-channel anti-aircraft missile and artillery complex "Blade". // Military Parade. N 4 / 1997.

Author: DIMMI	Created: 17.01.2009 03:38:02	Comments: 1	READ THE FULL ARTICLE ➤
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152 mm installation MK-5bis

MK-5bis

3 x 152 mm artillery mount. Adopted into service in 1949.

Fire control radar - "Zalp" (developed in 1950 at the Ametist Design Bureau);

Barrel length - 7600 mm (50 cal)

Initial speed - 915 m/s

Author: DIMMI	Created: 11.02.2009 22:30:31	Comments: 1	READ THE FULL ARTICLE ➤
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180 mm installation SM-48

SM-48

180 mm universal artillery mount of the unfinished cruiser Project 84. Developed in TsKB-34 (Leningrad) in the early to mid-1950s.

Maximum elevation angle is 76 degrees.

Author: DIMMI	Created: 11.02.2009 22:27:44	Comments: 1	READ THE FULL ARTICLE ➤
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Complex S-300F "Reef" (SA-N-6 GRUMBLE)

S-300F "Rif" complex, 5v55 and 48n6e missiles - SA-N-6 GRUMBLE Complex "Fort"

Shipborne version of the S-300PMU-1 air defense missile system. Developed by NPO Almaz under the supervision of B. Bunkin. Adopted into service in 1977-78. The missile was created by the Fakel Design Bureau. The name "Fort" first appeared in the press in 1996.

Guidance - by radar beam + ARLS homing head at the final stage, radar guidance system - TOP DOME (phased antenna array);

The launcher is a vertical launch drum type (6 missiles per TPU); the Fort SAM system is similar, but with 8 missiles (at least on the nuclear cruiser Pyotr Velikiy).

Basing :

Aircraft carrier Admiral Gorshkov (Baku, 32 SAMs);

Nuclear-powered missile cruisers Project 1144 of the Kirov type (2 complexes, 2 x 6 TPU, 4 ships);

Slava-class missile cruiser (8 TPUs per SAM system, the ship's ammunition complement is 64 SAMs);

Experimental large anti-submarine ship "Azov" pr.1134B type KARA - 1 launcher (built in 1 copy) - testing of the air defense missile system in the Black Sea;

Author: DIMMI	Created: 17.01.2009 02:44:31	Comments: 3	READ THE FULL ARTICLE ➤
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SA-N-5 (MANPADS "Strela")

SA-N-5 (MANPADS "Strela")

Quadruple PU MANPADS type "Strela-2" / "Strela-3". Adopted into service before 1980. MANPADS was created under the leadership of Nepobedimy and Shavyrin. Data is given for MANPADS "Strela-2".

Calculation - 1 person

Guidance - IR homing system (target tracking coordinator and autopilot)

Launcher - 4 SAMs - MTU-4S and MTU-4US (US - with light guides displaying information about targets on the operator's display);

Author: DIMMI	Created: 17.01.2009 02:53:52	Comments: 1	READ THE FULL ARTICLE ➤
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130 mm installation B-2-LM

B-2-LM

2 x 130 mm artillery mount. Adopted into service in 1948.

Guidance - Radar "Redan"

Barrel length - 7500 mm (58 cal)
Installation weight - 40 t

Author: [DIMMI](#)

Created: 26.01.2009 01:16:45

Comments: [1](#)[READ THE FULL ARTICLE](#) ➤

130 mm installation SM-2-1

SM-2-1

2 x 130 mm artillery mount. Adopted into service in 1951.

Guidance - Yakor-M radar

Ammunition - 800 rounds.

Author: [DIMMI](#)

Created: 26.01.2009 01:18:58

Comments: [1](#)[READ THE FULL ARTICLE](#) ➤

100 mm installation SM-5-1

SM-5-1

SM-5-1bis

SM-5-1s

2 x 100 mm artillery mount. Adopted into service in 1945 (SM-5-1bis).

Barrel length - 6500 mm (56 cal)
Installation weight - 35 t
Projectile weight - 16 kg

Author: [DIMMI](#)

Created: 22.01.2009 22:32:43

Comments: [3](#)[READ THE FULL ARTICLE](#) ➤

ZIF-57

ZIF-57 (?)

1 x 57mm artillery mount.

Application:
Destroyers pr.31 and mod.SKORY
Ship SASHA

Status:

Russia - 1994 - apparently decommissioned.

Author: [DIMMI](#)

Created: 19.01.2009 23:30:00

Comments: [4](#)[READ THE FULL ARTICLE](#) ➤

45mm CM-16 installation

SM-16

2 x 45 mm artillery mount. Adopted into service in 1951.

Radar - "Fut-B"

Application:
Destroyer pr.41

Author: [DIMMI](#)

Created: 19.01.2009 01:05:00

Comments: [1](#)[READ THE FULL ARTICLE](#) ➤

45mm AK mount

45mm AK mount (code name)

1 x 45 mm artillery system. Not identified (as of 1997). Adopted in 1957.

Application:
Minesweeper pr.254-a

Status:

Russia - 1994 - not identified, no data.

Author: [DIMMI](#)

Created: 19.01.2009 01:03:15

Comments: [1](#)[READ THE FULL ARTICLE](#) ➤

37mm 70-k installation

70-k

1 x 37 mm artillery mount model 1943

Crew - 6 people
Radar - "Vympel-2"

Installation weight - 1750 kg

Author: [DIMMI](#)

Created: 19.01.2009 00:57:19

Comments: [1](#)

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2m-5

2m-5

2 x 14.5 mm machine gun mount. Adopted in 1952.

Application:

SKR pr.1400 ZUK

Author: [DIMMI](#)

Created: 18.01.2009 21:15:53

Comments: [2](#)

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14.5 mm KPVT machine gun

14.5 mm KPVT machine gun

1 x 14.5 mm machine gun point with a KPVT machine gun (Vladimirova Tank Heavy Machine Gun). Used on small-displacement ships.

Application:

Boat pr.14310 MIRAGE - 2 units;

Boat pr.14006 - 1 unit;

Author: [DIMMI](#)

Created: 18.01.2009 21:14:37

Comments: [1](#)

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